

Product datasheet for **RG202181**

BAHD1 (NM_014952) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAHD1 (NM_014952) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BAHD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202181 representing NM_014952
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACACACACTCGGAGAAAGTCCCTTCCCATGCTGAGTTCGGGCCTCACTGGCCGCCGAGAGCCCTGCG
 AGATGGAAGACAGCAACATGGAGCAGGGGTTGAGGGTGTGGAGCCAGGCATGCCGAGAGCCAGGTCA
 CCTCACAGGGCGCCGCAAGAATTACCCACTTCGTAAGCGCCATTGGTTCTGAGAAGCCCAAGGCTGC
 AAAGTGTCTGACTCGCCTGGAGAATGTGGCCGGTCCCGGAGTGCAGATGAGGCTGATGAGTACCGC
 CTGACCTGCCAAGCCCCCAGCCCGGCCCATCCAGTGAAGACCCTGGCCTTGCCAGCCCCGCAAGCG
 GCGCCTGGCTCCCTCAATGCTGAAGCTCTCAATAACCTGCTGCTGGAGCGAGAGACACCAGCAGCCTG
 GCAGGCACCCGCCGAGTGCAGCAGGGATCCCCACCGCAGCCGTGACCGTATCGTGTACTGGGGGT
 GGTCTCTCCAAGAAGCGGCCCGGCTGGGGACCTTGAGGAGGAAGTCGGCACCTGTCTCCAGAGCC
 AGCACCCGATGAAGTCCCGCCGAGATGGAGACCCAGTCCCAAGAGACTGGTAGCCTGAACGCAGCT
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 GAACCATGGCCATCTGCAACTCCTTGTGGGCCATCCGTCAGCCATCTCATAAGCCCTGAGCAAGGCTC
 TGGAGAGCCCTTTGGGGTGCGCCCTCACCTGCCCTGCTGATGGGTGGCAGGGGCTCTGAAGCCGGA
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 CAGCTGTCCGCTGCCGATGCCTGGCAACCCCGGACTACAATGGCCTGTGTGTTGGCCTGAGCTCA
 CTGCCTAGGCAGCTTCTACCTGTACTGTGCCAAGAGGGGCTGCAGTGTGGGGTACTCGCCCTGCC
 CATGCTTCTGAGGGCAAGCTGTCCCAGTGGCTGCACCTCACGAGGAGGGGCTCCTTTAGCTCCGAGC
 TAGTGCCTCAGGCACCCCTTCCAGCACCTCCCTGGGGTCTCTCGCTACTGCTCTAGCGAGGACA
 CTGGAGTGAATGGCTACAGCATCTGCGGAGTGTGCCCCTGTCTGTTACCCACGCTGGCACTACCTGTGG
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 GAGCGCAAACCTCCCAGCGTTCTAAGTCAGGTCTGCGCACAGGCTCCAGCTGCAGGCACACTGCAAGG
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 GCCGGAGCCAGCCATCCGAAAGAGCTACCAGGCGGTAGAGCGGCATGGGGAGACAATCCGAGTCCGGGAC
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 AGCGCCGAGGTGAAGGCTCCCCAGCCGAAAGACAGCACTGGTCCCCCTCTGCAGACTATTCCACCCC
 ACCCCACCGCACAGTCCAGAGGACACGGACCCCTGAGCTGGTGTCTTTGCCCCATGTCTATGACTTC
 CGCCACGGGCGCATCCTTAAGAACCCCCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG202181 representing NM_014952
 Red=Cloning site Green=Tags(s)

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MTHTRRKSLPMLSSGLTGRREPLQMEDSNMEQGVGVEVPGMPESPGHLTGRRKNYPLRKRPLVPEKPKAC
KVLLTRLENAVAGPRSADEADELPPDLKPPSPAPSSSEDPGLAQPRKRRLASLNAEALNNLLLEREDTSSL
AGTRRSRAGDPHRSRDRDRATGGWSSSKRRLGDLGGGSRHLSPEPAPDEGPRRDGDPAPKRLASLNAA
AFLKLSQERELPLRLPRAHA EVDGRSTEPPAPKAPRPKWPVNGKNYPKAWQGASSGEAAGPPGWQPCPD
EPWPSATPCGPSVQPSHKPLSKALE SPLGLRPHLPLLMGQAALKPEPGRPGEE SPAPKQELHQPSFPTP
QLSPLPMPGNP ADYNGLCVGP E L T A L G S F Y L Y C G Q E L Q C G G Y S P C P M L P E G K L S P V A A P H E E G L L L A P S
SVPSGTPFQHPPWGSSRYCSSEDTGVNGYSICVGLPLSVTHAGTTCGGCPYKMPFAAEGCRSLGQLEFPL
PEAGHPASPAHLLGCPVPSVPPAAEPVPHLQTPTSEPQTVARACQSAKPPSGSKSGLRTGSSCRHTAR
SKAARRPSHPKQPRVQRPRRRRRRRRTNGWVPVGAACEKAVYVLDPEPAIRKSYQAVERHGETIRVRD
TVLLKSGPRKTSTPYVAKISALWENPESGELMMSLLWYYRPEHLQGGRRSPSMHEPLQNEVFASRHQDQNS
VACIEEKCYVLTFAEYCRFCAMAKRRGEGLPSRKTALVPPSADYSTPPHRTVPEDTDP E L V F L C R H V Y D F
RHGRILKNPQ
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014952

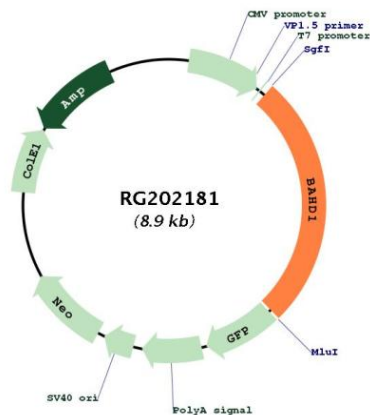
ORF Size: 2340 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
- RefSeq:** [NM_014952.2](#), [NP_055767.2](#)
- RefSeq Size:** 4529 bp
- RefSeq ORF:** 2343 bp
- Locus ID:** 22893
- UniProt ID:** [Q8TBE0](#)
- Cytogenetics:** 15q15.1
- Gene Summary:** Heterochromatin protein that acts as a transcription repressor and has the ability to promote the formation of large heterochromatic domains. May act by recruiting heterochromatin proteins such as CBX5 (HP1 alpha), HDAC5 and MBD1. Represses IGF2 expression by binding to its CpG-rich P3 promoter and recruiting heterochromatin proteins. At specific stages of Listeria infection, in complex with TRIM28, corepresses interferon-stimulated genes, including IFNL1, IFNL2 and IFNL3.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG202181